

FIGURE 1: EDG4 AMINO ACID SEQUENCE

1 10 20 30 40 50
MVIMGQCYYNETIGFFYNNSGKELSSHWRPKDVVVVALGLTVSVLVLLTN
51 60 70 80 90 100
LLVIAAIASNRRFHQPIYYLLGNLAAADLFAGVAYLFLMFHTGPRTARLS
101 110 120 130 140 150
LEGWFLRQGLLDTSLTASVATLLAVERHRSVMAVQLHSRLPRGRVVML
151 160 170 180 190 200
IVGVWVAALGLGLLPAHSWHCLCALDRCSRMAPLLSRSYLAVALSSLLV
201 210 220 230 240 250
FLLMVAVYTRIFFYVRRRVQRMAEHVSCHPRYRETTLSLVKTVVILGAF
251 260 270 280 290 300
VVCWTPGOVVLLDGLGCESCNVLAVEKYFLLIAEANSLVNAAVYSCRDA
301 310 320 330 340 350
EMRRTFRRLLCCACLRQSTRESVHYTSSAQGGASTRIMLPENGHPLMTPP
351 360 370 380
FSYLELQRYAASNKSTAPDDLWVLLAQPNQD

FIGURE 2: EDG4 NUCLEOTIDE SEQUENCE

1 ggcacgaggc gccgggcat gggcctcgag cccgccccga acccccgcga gccgccttg
61 tctgcggcgt gactggaggc ccagatggc atcatggcc agtgcacta caacgagacc
121 atcggcttct tctataacaa cagtggcaa gagctcagct cccactggcg gccaaggat
181 gtggctgtgg tggcaactgg gctgaccgtc agcgtgctgg tgctgctgac caatctgctg
241 gtcatacgag ccatacgcc tc aaccggccgc ttccaccgc ccactacta cctgctcgcc
301 aatctggccg cggctgaccc ttccggggc gtggcttacc tcttcctcat gttccacact
361 ggtcccccga cagccccact ttcaacttgg ggtgggttc tgccgcaggg cttgctggac
421 acaaggctca ctgcgtcggt ggcacactg ctggccatcg ccgtggagcg gcaccgcagt
481 gtatggccg tgca gctgca cagccgcctg ccccggtggc gcgtggcat gctattgtg
541 ggcgtgtgg tggctgcct gggcctggg ctgctgcctg cccactcctg gcactgcctc
601 tgtgcctgg accgctgctc acgcattggca ccctgctca gccgctccta tttggccgtc
661 tgggtctgtt cgagcctgt tgccttcctg ctcattgtt ctgtgtacac ccgcattttc
721 ttctacgtgc ggcggcgagt gcagcgcattt gca gacatgcatg tcagctgcca ccccgctac
781 cgagagacca cgctcagct ggtcaagact gttgtcatca tcctgggggc gttctgggtc
841 tgcggacac caggccaggt ggtactgtc ctggatgggt tagctgtga gtcctgcaat
901 gtcctgggtg tagaaaaatg cttctactg ttggccgagg ccaactact ggtcaatgt
961 gctgttact cttggccgaga tgcgtgatg cgccgcaccc tccggccct tctctgtgc
1021 gctgcctcc gccaggccac cccgcgactt gtcactata catccctctgc ccaggaggt
1081 gccagcactc gcatcatgt tcccgagaa gccacccac tgatgactcc accctttagc
1141 taccttqaac ttca gggcgtt cggcggcaagc aacaatcca cagccctga tgacttgtgg
1201 gtcctcctgg ctcaacccaa ccaacaggac tgactgactg gcaggacaag gtcctggcatg
1261 gca cagcacc actggccaggc ctccccaggc acaccactt gcccaggaa tgggggcttt
1321 gggcatctc ccactgccc tgggagtcag atgggtgca ggaatctggc tcttcagcca
1381 ttcagggtt aggggggttg taacagacat tattctgttt tcactgcgtt tccttggtaa
1441 gcccgtggc ctgggttccctg ctgtgtatg ctgagggttt taagggtgggg agagataagg
1501 gctctctcgg gca tgcctac ccggatgac tgggtatga ggacagactg tggacacccc
1561 atctacactg gtc tgcattt ttagcagcag agactgagggt gtgcagatgt tgagctggg
1621 aagggttggg gtc ccttgc gcccaggactggcctgt ccccaataga attgaagcag
1681 tccacgggaa gggatgata caaggatgaa acctttctt acactcaaaa aaaa

FIGURE 3: EDG5 AMINO ACID SEQUENCE

1 MGSLYSEYLNPNKVQEHYNYTKETLETQETTSRQVASAFIVILCCAIIVVE
10
20
30
40
50
51 NLLVLIAVARNSKFHSAMYLFLGNLAASDLLLAGVAFVANTLLSGSVTLRL
60
70
80
90
100
101 TPVQWFAREGSASITLSASVFSLLAIAIERHVAIAKVKLYGSDKSCRMLL
110
120
130
140
150
151 LIGASWLIISLVLGGLPILGWNLGHLEACSTVLPYAKHYVLCVVTIFSI
160
170
180
190
200
201 ILLAVALYVRIYCVVRSSHADMAAPQTLALLKTVTIVLGVFIVCWLPAF
210
220
230
240
250
251 SILLLDYACPVHSCPILYKAHYFFAVSTLNSSLNPVIYTWRSRDLRREVL
260
270
280
290
300
301 RPLQCWRPGVGVQGRRRVGTPGHHLPLRSSSSLERGMHMPTSPTFLEGN
310
320
330
340
350
351 FVV

FIGURE 4: EDG5 NUCLEOTIDE SEQUENCE

1 atggggcagct tggactcgga gtacacctgaac cccaaacaagg tccagggaaaca ctataattat
61 accaaggaga cgctggaaaac gcaggagacg acctcccgcc aggtggccctc ggccttcatc
121 gtcatcctct gttgcgcatt tgggtggaa aaccttctgg tgctcattgc ggtggcccgaa
181 aacagcaagt tccactcgcc aatgtacctg tttctggca acctggccgc ctccgatcta
241 ctggcaggcg tggccttcgt agccaataacc ttgtctcttg gctctgtcac gctgaggctg
301 acgcctgtgc agtggtttgc cggggagggc tctgcctcca tcacgctctc ggcctctgtc
361 ttcagcctcc tggccatcgc cattgagcgc cacgtggcca ttgccaaggt caagctgtat
421 ggcagcgcaca agagctgccc catgcttctg ctcatcgggg cctcgtggct catctcgctg
481 gtcctcggtg gcctgcccatt cttggctgg aactgcctgg gccacctcgaa ggcctgctcc
541 actgtcctgc ctctcatacgca caagcattat gtgtctgtgc tggtgaccat ctctccatc
601 atcctgttgg ccatcgtggc cctgtacgtg cgcattact gctgttcccg ctcaagccac
661 gctgacatgg cggccccgca gacgctagcc ctgtcaaga cggtcaccat cgtgcttaggc
721 gttttatcg tctgctggct gcccgccttc agcatcctcc ttctggacta tgcctgtccc
781 gtcactcct gcccgcattct ctacaaagcc cactacttt tcggcgtctc caccctgaat
841 tccctgctca accccgtcat ctacacgtgg cgcagccggg acctgcggcg ggaggtgctt
901 cggccgctgc agtgctggcg gccgggggtg ggggtgcaag gacggaggcg ggtcgggacc
961 cccggccacc acctcctgac actccgcagc tccagctccc tggagagggg catgcacatg
1021 cccacgtcac ccacgtttct ggagggcaac acggtggtct ga

FIGURE 5: EST No. AA419064

GGGCCATGGCTCGAGCCGCCCCGACCCCCCGCGAGCCCGCCTGTCTGGCGGTGACTGG
AGGCCAGATGGTCATCATGGGCCAGTGCTACTACAACGAGACCATCGGCTTCTTCTATA
ACAACAGTGGCAAAGAGCTCAGCTCCACTGGCGGCCAAGGATGTGGCTGTGGCAC
TGGGCTGACCGTCAGCGTGGTCTGCTGACCAATCTGCTGGTATAGCAGCCATCG
CCTCAACCGCCGCTCCACCAAGCCCCATCTACTACCTGCTCGCAATCTGGCGCGCTG
ACCTCTTCGCGGGCGTGGTACCTCTTCATGTTCCACACTGGTCCCCGACAGCCCG
ACTTTCACCTTGAGGG